FOMENKO, V.T.

Infinitesimal deformations of surfaces in the case of sleeve couplings. Dokl. AN SSSR 157 no.4:810-813 Ag '64
(MIRA 17:8)

1. Rostovskiy-na-Donu gosudarstvennyy universitet. Predstavleno akademikom I.N.Vekua.

FOMENKO, V.T. (Rostov-na-Donu)

Flexure of surfaces with conservation of congruence points.
Mat. sbor. 66 no.1:127-141 Ja '65. (MIRA 18:4)

...ntiesimal bending of surfaces with boundaries under certain boundary

...Ukrainskiy matematicheskiy zhurnal, v. 16, no. 5, 1964, 600-...

...surface geometry, boundary problem

...Infinitesimally small bending of surfaces of positive curvature ...arities are studied here. Let there be given a [illegible] of ...ding a boundary. It is asked if there is [illegible] ...ding that the points ... for a given value of ... ...be solved for a [illegible] ... ...the author solves this problem f... ...blem. The necessary and sufficient conditions ... ...a so that a solution exists. The consequence of ... ...the rigidity of the surface for certain relations ... ...and for surfaces with a boundary on the other side, thus ...strengthening the Pogorelov theorem for the rigidity of surfaces satisfy-

Card 1/2

AD501719

...condition that the boundary points are a given distance from ...

ASSOCIATION: none

SUBMITTED: 18May63 ENCL: 00 SUB CODE: MA

NR REF SOV: 002 OTHER: 000 ATD PRESS

FOMENKO, V.T. (Rostov-na-Donu)

Infinitesimal inflections of convex surfaces with slide contact.
Mat. sbor. 67 no.2:310-328 Je '65.

(MIRA 18:8)

FOMENKO, V.T.

Infinitesimal flexures of surfaces in the case of sleeve connections. Dokl. AN SSSR 161 no.4:780-782 Ap '65. (MIRA 18:5)

1. Rostovskiy gosudarstvennyy universitet. Submitted November 9, 1964.

23949-66 EWT(d) IJP(c)

ACC NR: AP6014959 SOURCE CODE: UR/0039/65/066/001/0127/0141

AUTHOR: Fomenko, V. T. (Rostov-na-Donu)

ORG: none

TITLE: Deformation of surfaces with the preservation of points of congruence

SOURCE: Matematicheskiy sbornik, v. 66, no. 1, 1965, 127-141

TOPIC TAGS: surface property, analytic function

ABSTRACT: A surface is said to be deformed if there exists a family S_t of surfaces which are isometric to it and which are continuous functions of $t \in [0,1]$ and which contain this surface for some value of t. Two isometrically equivalent points of surfaces S and S_t respectively are called congruence points if in the corresponding directions passing through those points the normal curvatures coincide. If the points of the surfaces S and S_t are points of congruence for any $t \in [0,1]$, then the surface S is said to be deformed preserving the points of congruence.
Here is proven the deformability of a surface with positive curvature which preserves the congruence of a finite or countable set of points. The proof is based on the investigation of the fundamental equations of surface theory.

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Card 1/2 UDC: 513.736.4

L 23949-66

ACC NR: AP6014959

and the application (to them) of the theory of generalized analytic functions as expounded in the book of I. N. VEKUA, "Generalized Analytic Functions," M. 1959. The properties of such surfaces are used here. A similar problem for infinitestimal deformations is considered by VEKUA in the above-mentioned book. Orig. art. has: 1 figure and 2 formulas. [JPRS]

SUB CODE: 12 / SUBM DATE: 21Oct63 / ORIG REF: 003

Card 2/2

ACC NR: AP7008904 SOURCE CODE: UR/0199/66/007/004/0939/0953

AUTHOR: Fomenko, V. T.

ORG: none

TITLE: Infinitesimal deformations of convex surfaces with boundary condition of generalized slip

SOURCE: Sibirskiy matematicheskiy zhurnal, v. 7, no. 4, 1966, 939-953

TOPIC TAGS: boundary value problem, mathematics

SUB CODE: 12

ABSTRACT: The problem of infinitesimal deformations of surfaces with the boundary condition of generalized slip, subject to certain constraints on surface and vector field $\vec{l}$, was previously studied by A. V. POGORELOV and by I. Kh. SABITOV. The following theorem was proved by POGORELOV: If vector field $\vec{l}$ at each point M of edge L coincides with the direction of vector $\overrightarrow{OM}$, general convex surface S^0 with the boundary condition of generalized slip permits exactly three linearly independent, infinitesimal deformations. SABITOV showed that this theorem remains valid if field $\vec{l}$ along L differs little (in the sense of some norm) from vector field $\overrightarrow{OM}$ and surface S^0 is regular. The present article is devoted to evaluating the limits of variation of vector field $\vec{l}$ within which the POGORELOV theorem remains valid, as well as evaluating the distribution density for vector fields of the given class for which the theorem is violated. A boundary value problem is formulated for the investigation of infinitesimal deformations of surfaces with the boundary condition of generalized slip. Conditions are given for the solvability of the problem, and

Card 1/2 UDC: 513.735

0929 1714

ACC NR: AP7008904

two theorems are formulated and proved. Orig. art. has: 1 figure and 31 formulas. [JPRS: 38,417]

Card 2/2

GOSHIN, S.A., inzh.; LEBEL', S.M., inzh.; FOMENKO, V.V., tekhn.

Semiautomatic machine for soldering cutter bits. Svar. proizv. no.6:37-38 Je '61. (MIRA 14:6)

1. Krasnoluchskiy mashinostroitel'nyy zavod.
(Coal mining machinery--Welding)

FOMENKO, V.V., gornyy inzh.

Stationary installation for covering clearances between cars.
Ugol' Ukr. 6 no.5:30 My '62. (MIRA 15:11)
(Mine railroads--Equipment and supplies)

FOMENKO, V.Yu.; SHCHERBAKOVA, K.F.; ANISTRAT, N.D.; MISHUROV, Ye.M.

New data on the interrelations between the rocks of the mikkle and upper series in the Krivoy Rog Basin. Dokl.AN SSSR 108 no.3: 535-537 My '56. (MLRA 9:8)

1. Predstavleno akademikom A.G. Betekhtinym.
(Krivoy Rog--Rocks)

AKIMENKO, N.M.; BELEVTSEV, Ya.N.; GOROSHNIKOV, B.I.; DUBINKINA, R.P.; ISHCHENKO, D.I.; KARSHENBAUM, A.P.; KULISHOV, M.P.; LYASHCHENKO, K.P.; MAKSIMOVICH, V.L.; SKURIDIN, S.A.; SIROSHTAN, R.I.; TOKHTUYEV, G.V.; FOMENKO, N.Ya.; SHCHERBAKOVA, K.F.; SEMENOV, M.V., red.izd-va; AVERKIYEVA, T.A., tekhn.red.

[Geological structure and iron ores of the Krivoy Rog Basin] Geologicheskoe stroenie i zheleznye rudy Krivorozhskogo basseina. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po geologii i okhrane nedr, 1957. 278 p. (MIRA 11:3)
(Krivoi Rog Basin--Geology)

BELEVTSEV, Ya.M.; AKIMENKO, M.M.; ZHILKINS'KIY, S.I.; SHCHERBAKOV, B.D.; TOKHTUYEV, G.V.; SIROSHTAN, P.I.; FOMENKO, V.Yu.

Method for studying structures of the Krivoy Rog Basin. Geol. zhur. 17 no.2:80-82 '57. (MLRA 10:11)
(Krivoy Rog Basin--Geology, Structural)

SHCHERBAKOVA, K.F.; FOMENKO, V.Yu.

Itabirites from the Krivoy Rog Basin. Zap. Vses. min. ob-va 87 no.1:113-115 '58. (MIRA 11:6)
(Krivoy Rog Basin—Itabirite)

SHCHERBAKOV, K.F., inzhener-geolog; FOMENKO, V.Yu., inzh.-geolog

Talc schist from the southern part of the Krivoy Rog Basin. Sbor. nauch. trud. NIGRI no.2:143-153 '59. (MIRA 14:1)
(Krivoy Rog Basin—Schists)
(Krivoy Rog Basin—Talc)

SHCHERBAKOVA, K.F.; FOMENKO, V.Yu. [Fomenko, V.IU.]

Classification of rocks in the upper strata along the borders of the Il'ich Mine Administration in the Krivoy Rog Basin. Geol. zhur. 19 no.1:86-90 '59. (MIRA 12:2)
(Krivoy Rog Basin--Geology, Stratigraphic)

SHCHERBAKOVA, K.F., inzhener-geolog; FOMENKO, V.Yu., inzhener-geolog

Characteristics of the upper stratum and its division in the limits of the Il'ich Mine in the Krivoy Rog Basin. Sbor. nauch. trud. NIGRI no.2:154-164 '59. (MIRA 14:1)
(Krivoy Rog Basin—Geology, Stratigraphic)

BELEVTSEV, Ya.N; KALYAYEV, G.I.; ZAGORUYKO, L.G.; SKURIDIN, S.A.; STRYGIN, A.I.; FEDYUSHIN, S.Ye.; FOMENKO, V.Yu.

Krivoy Rog-Kremenchug metallogenic zone. Geol.rud. mestorozh. no.6: 3-11 N-D '60. (MIRA14:3)

1. AN USSR, Geologicheskiy institut, Kiyev.
(Ukraine—Ore deposits)

BELEVTSEV, Ya.N.; FOMENKO, V.Yu.; NOTAROV, V.D.; MOLYAVKO, G.I.; MEL'NIK, Yu.P.; SIROSHTAN, R.I.; DOVGAN', M.N.; CHERNOVSKIY, M.I.; SHCHERBAKOVA, K.F.; ZAGORUYKO, L.G.; GOROSHNIKOV, B.I.; AKIMENKO, N.M.; SEMERGEYEVA, Ye.A.; KUCHER, V.N.; TAKHTUYEV, G.V.; KALYAYEV, G.I.; ZARUBA, V.M.; NAZAROV, P.P.; MAKSIMOVICH, V.L.; STRUYEVA, G.M.; KARSHENBAUM, A.P.; SKARZHINSKAYA, T.A.; CHEREDNICHENKO, A.I.; GERSHOYG, Yu.G.; PITADE, A.A.; RADUTSKAYA, P.D.; ZHILKINSKIY, S.I.; KAZAK, V.M.; KACHAN, V.G.; STRYGIN, A.I., red.; LADIYEVA, V.D., red.; ZHUKOV, G.V., red.; YEPATKO, Yu.M., red.; SHCHERBAKOV, B.D., red.; SLENZAK, O.I., red.izd-va; RAKHLINA, N.P., tekhn. red.

[Geology of Krivoy Rog iron-ore deposits]Geologiia Krivorozhskikh zhelezorudnykh mestorozhdenii. Kiev, Izd-vo Akad. nauk USSR. Vol.1.[General problems in the geology of the Krivoy Rog Basin. Geology and iron ores of the deposits of the "Ingulets," Rakhmanovo, and Il'ich Mines]Obshchie voprosy geologii Krivbassa. Geologicheskoe stroenie i zheleznye rudy mestorozhdenii rudnikov "Ingulets," Rakhmanovskogo i im. Il'icha. 1962. 479 p.
(Krivoy Rog Basin--Mining geology) (MIRA 16:3)
(Krivoy Rog Basin--Iron ores)

BELEVTSEV, Ya.N.; FOMENKO, V.Yu.; NOTAROV, V.D.; MOLYAVKO, G.I.; MEL'NIK, Yu.P.; SIROSHTAN, R.I.; DOVGAN', M.N.; CHERNOVSKIY, M.I.; SHCHERBAKOVA, K.F.; ZAGORUYKO, L.G.; GOROSHNIKOV, B.I.; AKIMENKO, N.M.; SEMERGEYEVA, Ye.A.; KUCHER, V.N.; TAKHTUYEV, G.V.; KALYAYEV, G.I.; ZARUBA, V.M.; NAZAROV, P.P.; MAKSIMOVICH, V.L.; STRUYEVA, G.M.; KARSHENBAUM, A.P.; SKARZHINSKAYA, T.A.; CHEREDNICHENKO, A.I.; GERSHOYG, Yu.G.; PITADE, A.A.; RADUTSKAYA, P.D.; ZHILKINSKIY, S.I.; KAZAK, V.M.; KACHAN, V.G.; POLOVKO,N.I., red.; LADIYEVA, V.D., red.; ZHUKOV, G.V., red.; YEPATKO, Yu.M., red.; SLENZAK,O.I., red. izd-va; KULICHENKO, V.G., red.; RAKHLINA, N.P., tekhn. red.; MATVEYCHUK, A.A., tekhn. red.

[Geology of the Krivoy Rog iron ore deposits] Geologiia Krivorozhskikh zhelezorudnykh mestorozhdenii. Kiev, Izd-vo Akad. nauk USSR. Vol.1.[General problems of the geology of the Krivoy Rog Basin. Geology and iron ores of the "Ingulets," Rakhmanovskiy, and Il'ich ore deposits] Obshchie voprosy geologii Krivbassa. Geologicheskoe stroenie i zheleznye rudy mestorozhdenii rudnikov "Ingulets," Rakhmanovskogo i im. Il'icha. 1962. 479 p. Vol.2.[Geology and iron ores of the Dzerzhinskiy, Kirov, Liebknecht, October Revolution, "Bol'shevik," Frunze, 22d Parts'ezd, Red Guard, and Lenin deposits]Geologicheskoe stroenie i zheleznye rudy mestorozhdenii im. Derzhinskogo, im.Kirova, im.K.Linkenkhta, im.XX parts"ezda, im. Krasnoi Gvardii i im.Lenina. 1962. 564 p. (MIRA 16:5)
(Krivoy Rog Basin--Iron ores)

BLELVTSEV, Ya.N.; ZAGORUYKO, L.G.; KALYAYEV, G.I.; MOLYAVKO, G.I.; SKURIDIN, S.A.; STRYGIN, A.I.; FEDYUSHIN, S.Ye.; FOMENKO, V.Yu.

Metallogenetic features of the Ukranian iron-ore province. Zakonom. razm. polezn. iskop. 5:82-109 '62. (MIRA 15:12)

1. Institut geologicheskikh nauk AN Ukrainskoy SSR.
(Ukraine--Ore deposits)

BELEVTSEV, Ya.N.; BEYGULENKO, I.L.; BETIN, D.I.; BORISENKO, V.G.; GUBKINA, N.N.; DZHEDZALOV, A.T.; ZHILKINSKIY, S.I., prof.; ZALATA, L.F.; KAZAK, V.M.; MALYUTIN, Ye.I.; MUROMTSEVA, Z.G.; NATAROV, V.D., doktor geol.-miner. nauk; PANASENKO, V.N.; PITADE, A.A.; RADUTSKAYA, P.D.; SLEKTOR , S.M.; SMIRNOV, D.I.; TOKHTUYEV, G.V., kand. geol.-min. nauk; FOMENKO, V.Yu.; SLENZAK, O.I., red.izd-va; MATVEYCHUK, A.A. , tekhn. red.

[Methodological guide for the geological service for the prospecting and mining of Krivoy Rog type deposits] Metodicheskoe rukovodstvo dlia razvedochnoi i rudnichnoi geologicheskoi sluzhby mestorozhdenii krivorozhskogo tipa. Pod red. IA.N. Belevtseva. Kiev, Izd-vo AN USSR, 1963. 395 p.

(MIRA 16:12)

1. Krivoy Rog. Gornorudnyy institut. 2. Chlen-korrespondent AN Ukr.SSR (for Belevtsev).

(Krivoy Rog Basin--Engineering geology)

AYZENBERG, D.Ye.; BELEVTSEV, Ya.N.; BORDUNOV, I.N.; BORISENKO, S.T.; BULKIN, G.A.; GORLITSKIY, B.A.; DOVGAN', M.N.; ZAGORUYKO, L.G.; KAZAKOV, L.R.; KALYAYEV, G.I.; KARASIK, M.A.; KACHAN, V.G.; KISELEV, A.S.; LAGUTIN, P.K.; LAZARENKO, Ye.K.; LAZARENKO, E.A.; LAPITSKIY, E.M.; LAPCHIK, F.Ye.; LAS'KOV, V.A.; LEVENSHTEYN, M.L.; MALAKHOVSKIY, V.F.; NITKEYEV, M.V.; PRUSS, A.K.; SKARZHINSKIY, V.I.; SKURIDIN, S.A.; SOLOV'YEV, F.I.; STRYGIN, A.I.; SUSHCHUK, Ye.G.; TEPLITSKAYA, N.V.; FEDYUSHIN, S.Ye.; FOMENKO, V.Yu.; SHKOLA, T.N.; SHTERNOV, A.G.; YAROSHCHUK, M.A.; ZAVIRYUKHINA, V.N., red.

[Problems of metallogeny in the Ukraine] Problemy metallogenii Ukrainy. Kiev, Naukova dumka, 1964. 254 p.
(MIRA 18:1)

1. Akademiya nauk URSR, Kiev. Instytut geologichnykh nauk.

MAGAK'YAN, I.G.; AKIMENKO, N.M.; BELEVTSEV, Ya.N.; GERSHOYG, Yu.G.; GRECHISHNIKOV, N.P.; KALYAYEV, G.I.; KARSHENBAUM, A.P.; KRAVCHENKO, V.M.; KULISHOV, M.P.; MAKSIMOVICH, V.L.; MEL'NIK, Yu.P.; PITADE, A.A.; SKURIDIN, S.A.; STRIGIN, A.I.; FEDORCHENKO, V.S.; FOMENKO, V.Yu.

Reviews and bibliography. Geol. rud. mestorozh. 7 no.3:113-117 My-Je '65. (MIRA 18:7)

POMENKO, YA.

Tvorchestvo agronoma [Creative work of an agriculturist]. Moskva, Moskovskii rabochii, 1953. 54 p.

SO: Monthly List of Russian Accessions, Vol.6 No. 11 February 1954

FOMENKO, Ya. (Zaporozh'ye-Melitopol'-Dzhankoy)

Farther south than Zaporozh'ye. Kryl.rod. 2 no.11:3-4 N '51.
(Kakhovka Hydroelectric Power Station) (MLRA 8:8)

FOMENKO, Ya.

The brains, honor, and conscience of our people. Komm.Vooruzh. Sil 2 no.19:18-24 O '61. (MIRA 14:9)
(Communist Party of the Soviet Union)

FOMENKO, Ya.

In a house on Leningrad Avenue... Voen. znan. 41 no.4:22 Ap '65.
(MIRA 18:3)

FOMENKO, Ya.A.

Methodology of calculating water yield to rivers of the Dnieper Basin during years of high floods. Trudy UkrNIGMI no.51:12-20 '65. (MIRA 18:9)

FOMENKO, YAKOV NIKHAYLOVICH

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OT STEN KREMLYA [FROM THE WALLS OF THE KREMLIN (ON JOURNEYS FROM THE ARCTIC OCEAN TO MOSCOW)] MOSKVA, MOSKOVSKIY RABOCHIY, 1957.
241 P. ILLUS., PORTS.

24(3)

Author: D'yakov, G.P., Candidate of Physical-Mathematical Sciences SOV/55-58-2-34/35

TITLE: Survey of Papers Read by Scientists of Moscow University at the All-Union Congress on the Physics of Magnetic Materials (Obzor dokladov uchenykh moskovskogo universiteta na vsesoyuznom soveshchanii po fizike magnitnykh materialov)

PERIODICAL: Vestnik Moskovskogo Universiteta.Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1958, Nr 2,pp 247-250 (USSR)

ABSTRACT: From December 6 - 11,1957 there took place the fourth Union Congress on physics of magnetic materials in Leningrad. (The first two meetings took place 1946 and 1951 in Sverdlovsk, the third meeting 1956 in Moscow). The congress was organized by : Academy of Sciences of the USSR, Department of Physical-Mathematical Sciences, Scientific Council on Fundamental Problems of Magnetism, Institute for Semiconductors of the Academy of Sciences, USSR and Committee for Magnetism. There were more than 300 participators, 59 lectures were given, among them the following lectures of the representatives of the Moscow State University :

1. Professor R.V. Telesnin, Ye.F. Kuritsyna, Lecturer "On the Velocity of Magnetic Reversal of the Ferromagnetics".
2. Professor R.V. Telesnin, Ye.V. Karzhagina, Assistant "On Magnetic Viscosity of Ferrites".
3. Professor R.V. Telesnin I.S. Shishkov, Aspirant "Effect of Magnetic Viscosity on the Frequency Characteristics of Ferrites".
4. M.V. Degtyar, Lecturer "Variations of Structure and Antiferromagnetic Properties of Ni_3Fe".
5. M.A. Grabovskiy, Lecturer, S.Yu. Brodskaya, Junior Scientific Assistant "Magnetic Properties of Anisotropic Stones".
6. G.P. D'yakov, Lecturer "Magnetostriction Properties of Binary Alloys".
7. Professor Ye.I. Kondorskiy, L.V. Sobolev, Assistant "Electric Properties of Ni-Zn-Ferrites".
8. N.Z. Miryasov, Senior Scientific Assistant, A.P. Parsanov, Aspirant "Magnetic Properties and Structure of Manganese - Boron - Alloys".
9. N.A. Smol'kov, Senior Scientific Assistant, K.P. Belov "Some Properties of Ferrites".
10. N.A. Smol'kov, Senior Scientific Assistant, Yu.P. Simanov, Lecturer "Properties of $Ni Fe_2 O_4$ - $Mg Fe_2 O_4$ ".
11. N.A. Smol'kov and Ye.I. Pomenko, Engineer "Properties of Ferrites in the High-Frequency Range".
12. Professor K.P. Belov, K.M. Bol'shova, Lecturer, T.A. Yelkina, Lecturer, and M.A. Zaytseva, Junior Scientific Assistant "Ferrites With Compensation Point".
13. K.P. Belov, Ye.V. Talalayeva, Assistant "Electric and Galvanomagnetic Properties of the Manganese Ferrites".
14. V.A. Timofeyeva, Junior Scientific Assistant, A.V. Zalesskiy "Production of Monocrystals of Ferrites".
15. Professor K.P. Belov, A.V. Ped'ko, Junior Scientific Assistant "On Galvanomagnetic Properties of Ferromagnetic Alloys Near the Absolute Zero of Temperature".

The participators of the meeting visited a laboratory of the Institute of Semiconductors of the Academy of Sciences of the USSR (Professor [illegible] Zalesskiy).

The meeting was concluded by Professor S.V. Vonsovskiy, Corresponding Member, Academy of Sciences, USSR with the indication to the following [illegible] Congress planned for 1958.

1. Magnetic Resonance and Galvanomagnetic Effects in Kazan'.
2. Ferromagnetic Semiconductors Ferrites - in [illegible].
3. Dust-Figure Structure of the Ferromagnetics and Paramagnetic Effects - in Krasnoyarsk.

24(3) SOV/48-23-3-18/34

AUTHORS: Smol'kov, N. A., Fomenko, Ye. I.

TITLE: Some Properties of Ferrites at Super High Frequencies (Nekotoryye svoystva ferritov na sverkhvysokikh chastotakh)

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 3, pp 377-379 (USSR)

ABSTRACT: As Polder (Ref 1) has theoretically shown , a high-frequency plane-polarized electromagnetic oscillation is decomposed into two waves when passing through a magnetized ferromagnetic: one wave is left handed circularly polarized and one right-handed. The velocities of propagation in both waves are different. For this reason the resulting plane-polarized wave which emerges from the ferromagnetic shows a rotation of the polarization plane by φ (compared to the incident wave) - i.e. a Faraday effect may be observed which is similar to the optical one. Roberts (Ref 2) and Hogan (Ref 3) proved this experimentally with ferrites. Six diagrams are discussed. In the first diagram the rotation of the polarization plane in dependence of the external magnetic field H in a cylindrical magnesium-manganese-ferrite sample ($Mg_{0.75}Mn_{0.25}Fe_2O_4$)

Card 1/2

Some Properties of Ferrites at Super High Frequencies

at a frequency of 9350 Megacycles is shown. In the second diagram the same is demonstrated for magnesium-nickel-manganese-ferrite. In the diagram 3a the damping of the polarized wave is shown in dependence of the external magnetic field (φ has a sharp maximum), and in 3b the dependence of the ellipticity on the external magnetic field is shown; d shows a minimum at the same place where φ has its maximum. The fourth diagram shows the dependence of the rotation of the polarization plane on the external magnetic field H for 6 different magnesium-manganese-ferrites. In the fifth diagram the angle of rotation of the polarization plane is shown for three different temperatures as a function of the mixing proportion between $MnFe_2O_4$ and $MgFe_2O_4$ at a field strength of H_o = 460 Oe. There are 5 figures and 9 references, 3 of which are Soviet.

L 00811-66 EWT(1)/EWA(h) ESD

ACCESSION NR: AP5015912 UR/0103/65/026/006/1112/1114
621.373.9:538.63

AUTHOR: Bogomolov, V. N. (Leningrad); Gerayzade, A. P. (Leningrad); Pogodin, V. I. (Leningrad); Fomenko, Ye. P. (Leningrad)

TITLE: Galvanomagnetic oscillator

SOURCE: Avtomatika i telemekhanika, v. 26, no. 6, 1965, 1112-1114

TOPIC TAGS: galvanomagnetic oscillator

ABSTRACT: An experimental galvanomagnetic oscillator with an InSb magnetoresistor is briefly described. The oscillator developed 4.4 w continuously or 10 w for a short time at 28 cps and water cooling (was immersed in water); the efficiency was 19% at 10 w. It is pointed out that the existing theory correctly describes the actual oscillator behavior: the discrepancy between the theoretical and experimental oscillatory currents is only 10%. A method of measuring the oscillator characteristics is given. Orig. art. has: 3 figures, 3 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 22Feb64 ENCL.: 00 SUB CODE: EC

Card 1/1 NO REF SOV: 002 OTHER: 001

L 5371-66 EWT(1)/EPA(s)-2

ACC NR: AP5024577 SOURCE CODE: UR/0292/65/000/009/0018/0019

AUTHOR: Berger, A. Ya. (Prof.); Vodyako, I. M. (Engr.); Fedorov, V. F. (Engr.); Fomenko, Yu. A. (Engr.); Oranskiy, M. I. (Candidate of technical sciences)

ORG: none

TITLE: Induction motors with protective enclosures

SOURCE: Elektrotekhnika, no. 9, 1965, 18-19

TOPIC TAGS: induction motor

ABSTRACT: The induction motors whose stator winding -- and sometimes also the rotor -- are protected against corrosive medium by a nonmagnetic-material enclosure are considered. Simple formulas based on an equivalent circuit are offered which allow for the variation of motor characteristics due to the presence of the enclosure. Three induction motors (A51-4, A52-4, and A-42-2) equipped with 1Kh16N9T stainless-steel enclosures of different thicknesses and lengths were tested at 50 cps; also one of the motors was tested with a copper enclosure. These conclusions are reported: (1) The losses in the special-enclosure motors are higher and their specific power is lower than those of conventional motors; (2) Protective enclosures having

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ACC NR: AP5024577

minimum thickness and length and a high resistivity are recommended; (3) The protective enclosure has no effect on the motor short-circuit parameters. Orig. art. has: 1 figures, 5 formulas, and 4 tables.

SUB CODE: EE/ SUBM DATE: 00/ ORIG REF: 001/ OTH REF: 003

Card 2/2

FOMENKO, Yu.I.

Experimental investigation of a series of guide nozzles on moorings. Trudy TSNIIMF no.15:70-81 '58. (MIRA 11:8)
(Propellers--Testing)

FOMENKO, Yu.I.; ALCHUDZHAN, G.A.

Propulsive speed and maneuvering trials of the standardized "Inzhener Belov"-type cotton and lumber carriers. Inform. sbor. TSNIIMF no.59. Tekh. ekspl.mor.flota no.7:22-37 '61. (MIRA 16:6)
(Ship trials) (Freighters)

FOMENKO, Yu.I.

Design of a propeller with widened contour of the blade adapted for a guide nozzle. Trudy TSNIIMF 7 no.35:74-88 '61.
(MIRA 14:12)
(Propellers)

YEVREINOV, I.V., kand.tekhn.nauk, rukovoditel' raboty; ALFEROVA, N.V., kand.tekhn.nauk; GOL'DENFON, A.K., kand.tekhn.nauk; ZINCHENKO, V.I., kand.tekhn.nauk; KORCHAGIN, M.I., kand.tekhn.nauk; PANOV, V.A., kand.tekhn.nauk; URBANOVICH, A.K., kand.tekhn.nauk; FOMENKO, Yu.I., kand.tekhn.nauk; YAKOVSKIY, F.V., kand.tekhn.nauk; LISIN, V.N., inzh.; LYUTOV, I.L., inzh.; NEYELOV, A.N., inzh.; STRUMPE, P.I., kand.tekhn. nauk, otv.red.; DRANITSYN, S.N., kand.tekhn.nauk, zam.otv.red.; GOROBETS, V.A., kand.voyen.-morskikh nauk, red.; MAKSIMADZHI, A.I., kand.tekhn.nauk, red.; ROZHDESTVENSKIY, N.A., kand.tekhn.nauk, red.; SYROMYATNIKOV, V.F., kand.tekhn.nauk, red.; LEBEDEVA, N.S., red.; STUL'CHIKOVA, N.P., tekhn.red.

[Methods of testing the thermodynamic efficiency of marine diesel engine power plants] Metodika teplotekhnicheskikh ispytanii dizel'nykh sudovykh ustanovok. Leningrad, 1962. 165 p. (Leningrad. TSentral'nyi nauchno-issledovatel'skii institut morskogo flota. Informatsionnyi sbornik, no.83/84. Tekhnicheskaia ekspluatatsiia, no.18/19). (MIRA 16:10)

1. Nachal'nik otdela tekhnicheskoy ekspluatatsii sudovykh silovykh ustanovok TSentral'nogo nauchno-issledovatel'skogo instituta morskogo flota (for Yevreinov). 2. TSentral'nyy nauchno-issledovatel'skiy institut morskogo flota (Alferova, Gol'denfon, Zinchenko, Korchagin, Panov, Urbanovich, Fomenko, Yakovskiy, Lisin, Lyutov, Neyelov).

FOMENKO, Yu.I.

Propulsive and manoeuvering trials of the motorship "Kirghizistan." Inform. sbor. TSNIIMF no.75 Tekh. ekspl. mor. flota no.14:20-33 '62. (MIRA 16:3)

(Ship trials) (Ship propulsion)

FOMENKO, Yu.I.; ALCHUDZHAN, G.A.

Propulsive and manoeuvring trials of the passenger motorship "Grigorii Ordzhonikidze." Inform. sbor. TSNIIMF no.75 Tekh. ekspl. mor. flota no.14:3-19 '62. (MIRA 16:3)
(Ship trials) (Ship propulsion)

L 00005-63 EWT(d)/EWT(l)/EWT(m)/EWP(w)/EWP(v)/T-2/EWP(k) IJP(c) WW ES/JAT(CZ)

ACC NR: AT6014315 (N) SOURCE CODE: UR/2752/63/000/049/0102/0114

7/
B+1

UATHOR: Fomenko, Yu. I. (Candidate of technical sciences)

ORG: None

TITLE: Calculating the clearance between the end of the blade and the nozzle wall in designing a nozzle-propeller system

SOURCE: Leningrad. Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota. Trudy, no. 49, 1963. Gidromekhanika sudna (Hydromechanics of ships), 102-114

TOPIC TAGS: propeller blade, marine engineering, nozzle design

ABSTRACT: The author points out the advantages of designing screw propeller systems on the basis of systematic tests of models over the use of the vortex theory and proposes a method for designing systems with screw propellers in guide nozzles using design curves plotted from systematic test series of nozzle and propeller models made in 1958-1959 by the order of the Central Scientific Research Institute of the Maritime Fleet in an experimental tank. The proposed method does not require knowledge of the vortex theory and the designer may plan a nozzle-propeller system rapidly and with simple calculations accounting for cavitation, strength, blade thickness and the clearance between the end of the blade and the nozzle wall. The hydrodynamic design curves are plotted in K_s-λ_e and $\sqrt{K_2}$-λ_e coordinates. These diagrams are similar to those used

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L 00005-67

ACC NR: AT6014315

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for designing screw propellers without guide nozzles. Points corresponding to optimum diameters and optimum rpm are indicated on the curves. Interaction between the propeller system and the hull is considered, and the additional suction force generated by the nozzle is discussed. An example is given illustrating application of the proposed method to design of a nozzle-propeller system for a small tanker. The results show that the correction for clearance between the blade and guide nozzle causes a considerable change in the theoretical velocity of the ship and in the design of screw propeller elements. Orig. art. has: 4 figures, 5 tables, 20 formulas.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 009/ OTH REF: 001

21/

awm

Card 2/2

L 05655-67 EWP(k)/EWT(m)/T-2/EWP(w)/EWP(v) IJP(c) EM

ACC NR: AT6025574 (N) SOURCE CODE: UR/2754/66/000/072/0060/0070

AUTHOR: Fomenko, Yu. I. (Candidate of technical sciences)

ORG: None

TITLE: Effect which the shape of the screw vortex system has on the hydrodynamic characteristics of the "screw propeller-guide nozzle" complex

SOURCE: Leningrad. Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota. Trudy, no. 72, 1966. Gidromekhanika sudna (Hydromechanics of ships), 60-70

TOPIC TAGS: hydrodynamics, fluid mechanics, vortex flow, propeller blade, marine engineering

ABSTRACT: The author generalizes Lavrent'yev's screw-nozzle theory (Lavrent'yev, V. M., "Design of Marine Screw Propellers", Leningrad, izd-vo "Morskoy transport", 1949) to the case of nonuniform loading along the disc of the screw. The problem reduces to Fredholm's linear integral equation of the first kind which is derived from the condition of a constant stream function on the contour of the nozzle. This integral equation is solved for the cases where the semi-infinite vortex cylinder substituted for the screw has a constant diameter equal to that of the screw and where this cylinder has a diameter greater than that of the screw. The counterflow and nozzle-induced velocities are theoretically calculated by the proposed method for a specific nozzle. The results show completely satisfactory agreement with experimental data

Card 1/2 UDC: 629.12:532.582.5.001.5

L 05655-67

ACC NR: AT6025574

which indicates that the proposed method may be used for finding the basic hydrodynamic characteristics and distribution of nozzle-induced velocities in designing screw complexes with nozzles of any shape. Orig. art. has: 10 figures, 3 tables, 9 formulas.

SUB CODE: 13/ SUBM DATE: None/ ORIG REF: 004

Card 2/2

PAVLOV, I.M.; SUVOROV, I.K.; FOMENKO, Yu.Ye.

Improved cylindrical torsiometer with a cut-in strip. Izv. vys.ucheb.zav.; chern.met. no.5:72-75 '60.
(MIRA 13:6)

1. Moskovskiy institut stali.
(Torsion) (Measuring instruments)

PHASE I BOOK EXPLOITATION SOV/4782

Moscow. Institut stali

Proizvodstvo i obrabotka stali i splavov (Production and Treatment of Steel and Alloys) Moscow, Metallurgizdat, 1960. 462 p. (Series: Its: Sbornik, 39) 2,100 copies printed.

Ed.: Ye. A. Borko; Ed. of Publishing House: S. L. Zinger; Tech. Ed.: M. R. Kleyman; Editorial Council of the Institute: M. A. Glinkov, Professor, Doctor of Technical Sciences; R. N. Grigorash, Docent, Candidate of Technical Sciences; V. P. Yelyutin, Professor, Doctor of Technical Sciences; A. A. Zhukhovitskiy, Professor, Doctor of Chemical Sciences; I. N. Kidin, Professor, Doctor of Technical Sciences; B. G. Livshits, Professor, Doctor of Technical Sciences; A. P. Lyubimov, Professor, Doctor of Technical Sciences; I. M. Pavlov, Corresponding Member, Academy of Sciences USSR; and A. N. Pokhvisnev, Professor, Doctor of Technical Sciences.

PURPOSE: This book is intended for technical personnel in industry, scientific institutions and schools of higher education, dealing with open-hearth and electric-furnace steelmaking, metal rolling, physical metallurgy, metallography, and heat-treatment. It may

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also be used by students specializing in these fields.

COVERAGE: The book contains results of theoretical and experimental investigations of metallurgical and heat-engineering processes in open-hearth and electric furnaces. Data are included on the following: desulfurizing of pig iron outside the blast furnace, interaction of oxides of the carbide-forming metals with solid carbon, the change of content of gases in the bath of the open-hearth furnace in various periods of melting, intensification of the electric melting of steel, etc. Other articles deal with the nonuniformity of deformation in rolling, the study of the continuous rolling process, the dependence of the friction—slippage coefficients in rolling on a number of factors, and other problems in the pressworking of metals. Articles on physical metallurgy and the theoretical principles and techniques of the heat treatment of steel are also included. No personalities are mentioned. References accompany most of the articles. There are 207 references, both Soviet and non-Soviet.

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Card 5/10

S/148/60/000/007/005/015
A161/A029

AUTHORS: Osadchiy, V.Ya.; Fomenko, Yu.Ye.; Yeriklintsev, V.V.; Baykov, V.P.

TITLE: Metal Pressure on the Piercing Mill Rolls

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, 1960, Nr 7, pp 103-110

TEXT: An experimental investigation at Nikopol'skiy Yuzhnotrubnyy zavod (Nikopol' Tube Works) is described. The purpose was to study the dynamics of the process, which is important for full utilization of the power and mechanical strength of rolling mills as well as for establishing an optimum rolling process technology. The "400" installation of the plant used for experiments consists of two continuous heating furnaces; two piercing mills (with 960-860 mm diameter rolls and 2,350 kw motor); one reheating furnace before the spreading mill; an automatic spreading mill; two rolling-over mills; one sizing mill, and a cooler with a straightening machine. Both piercing mills are operating only when rolling large-diameter and thin-walled tubes; otherwise the piercing mill Nr 2 operates alone. It produces billets in a single piercing. Metal pressure on the

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Metal Pressure on the Piercing Mill Rolls

piercing mill rolls was measured with dynamometers placed between the screwdowns and the work roll bolster (Figure 1), in especially prepared casings (Figure 2). Pressure oscillograms are shown (Figure 3) and "decoded" (in Table 1). No sufficiently accurate theoretical or experimental data are yet available on the dependance of specific metal pressure on the basic piercing process parameters, and data obtained by experience are usually being employed in calculations of the piercing mill parts and technology. In the described investigation, mean pressure was determined by dividing the experimentally determined full metal pressure on the rolls by the contact area between the metal and the rolls:

$$p = \frac{P}{s} \text{ kg/mm}^2.$$

A.I. Tselikov's method /Ref 3/ was used for determining the contact area, taking into account the ovality of the billet. The mean specific pressures are given in a table (Table 2). It was stated that for alloy steel the mean specific pressure is 10-14 kg/mm^2, and for carbon steel it reaches 7.5-12 kg/mm^2, which matches the data obtained in other investigations /Refs 1, 4 and 5/. The following conclusions were drawn: 1) In the two piercing mills studied the pressure was 33-92 ton, which is not high for this type of mills. In rolling

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Metal Pressure on the Piercing Mill Rolls

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stainless and alloy steel the pressure is higher than in rolling carbon steel, provided that axial slip has no dominating effect as is the case in rolling 168x8 mm tubes of Х5ВФ (Kh5VF) and 168x10 mm tubes of Х5 (Kh5) steel tubes. When rolling tubes of equal diameter but different wall thickness, the pressure curve has a maximum. 2) The pressure on the inlet side screwdown is higher than on the outlet side screwdown: by 2-3 times in the piercing mill Nr 1, and 2-4 times in the Nr 2. Load on the outlet side bearings being much lower, their rated life time may be increased 2-3 times. 3) Only slip (lag) of metal was observed in the deformation zone, lead was absent. The axial slip coefficient was between 0.48 and 0.90. There are 8 figures and 5 Soviet references.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: June 24, 1959

Card 3/3

POLUKHIN, P.I., doktor tekhn.nauk; ASTAKHOV, I.G., kand.tekhn.nauk;
SOLOV'YEV, A.I., inzh.; FOMENKO, Yu.Ye., inzh.

Investigating the continuous rolling process of angle steel.
Sbor.Inst.stali no.39:132-152 '60. (MIRA 13:7)

1. Kafedra prokatki Moskovskogo ordena Trudovogo Krasnogo
Znameni instituta stali im. I.V.Stalina.
(Rolling(Metalwork))

S/148/60/000/009/013/025
A161/A030

AUTHORS: Pavlov, I.M., Suvorov, I.K., and Fomenko, Yu.Ye.

TITLE: An investigation of scale on free-cutting steel and its effect on friction in rolling

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, no. 9, 1960, 95-101

TEXT: Free-cutting steel causes difficulties in rolling, i.e. the grip of the rollers is not firm, the rollers slip on metal, the metal cracks and tears. Same difficulties are experienced with this steel abroad. The steel per GOST 1414-54 standard contains 0.08-0.30% S, up to 0.15% P and 0.45% C. Sulphur content sometimes reaches 0.5%. The causes of the trouble in rolling have not yet been investigated and no data on the matter exist in works on the melting, deoxidation and teeming of free-cutting steel (Ref.1-4). The described investigation has been carried out in rolling in a "750" billet mill, with free-cutting "A12" and "A12A" and structural steel for comparison. Scale was collected from under the rolls in the mill

and from ingots. The temperature of scale softening was determined in an installation of Kafedra metallurgii chuguna MIS (The Chair of Iron Metallurgy of MIS) used for testing the softening of ore and sinter (Fig.1). The softening point of the furnace scale was found at 1050°C. The softening point changed in rolling: 1000°C after the second pass; 950° after the third; 850° after the fifth and the seventh; 900° after the ninth. It drops from 1050° in the first pass to 850°, and rises again after the seventh. The content of C in the scale varied from 0.01 to 0.02%; of Mn from 0.6 to 0.7%; Si from 0.15 to 0.96%. The S content varied drastically: furnace scale contained 0.032-0.039% S, this content was maintained in the first and second pass, but in the third pass it rose to 0.15% and reached 0.39% in the fifth, then dropped to 0.15% in the seventh pass and to 0.10% after the ninth. Sulphur content in structural "20" steel scale was considerably lower. Curves of the sulphur content variation are shown (Fig.5). The curve of the roller grip (Fig.1) clearly shows the influence of the sulphur content in the scale - gripping becomes difficult with a higher sulphur content. The sulphur distribution in the metal was investigated by Baumann sulphur prints and by chemical analysis taken from different

portions of ingots and from rolled strip. It varied only insignificantly. Conclusions: 1) A difficult grip is characteristic of free-cutting steel compared with other steel grades. 2) The chemical composition of the scale changes in the rolling process, particularly the sulphur content. 3) The softening point of the scale collected in the rolling process is in the range 850-1050°C, and the softening point is lower with a higher sulphur content. 4) Increased sulphur content in the scale makes the gripping difficult. 5) The segregation of sulphur is insignificant in rolled steel and in ingots. 6) Sulphur segregation is not clearly expressed in steel with a high sulphur content; the sulphur content difference is low on a different level and across in the ingots. 7) The sulphur distribution is more even in free-cutting steel deoxidized with aluminum, and the size of sulphurous inclusions is smaller. 8) The sulphur distribution improves in rolled metal during the rolling process. This is more clearly expressed in "A12A" steel deoxidized with aluminum. There are 5 figures, 3 tables and 5 Soviet-bloc references.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: 26 January 1960

S/148/60/000/011/006/015
A161/A030

AUTHORS: Pavlov, I. M.; Suvorov, I. K., Fomenko, Yu. Ye.

TITLE: Investigation of free-cutting steel alloyed with titanium

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, no. 11, 1960, 61 - 65

TEXT: As had been stated in a previous investigation (Ref. 1, same authors, Izv. vyssh. uch. zav. Chern. Metallurgiya, 1960, No. 7, 9) the cause of the difficult grip in rolling "A12" steel is the high sulfur content in scale. It lowers the softening point of scale, turning it into a lubricant. Besides, this steel contains low-melting Fe-FeS eutectic which can also decrease friction and this drastically decreases the plasticity of steel at the rolling temperature and the strip ends thus become rugged. Data of a work on systems Fe-Ti-S and Fe-Ti-C-S (Ref. 5, Fishel, V. Ru., D. Ellis. The desulfurating effects of titanium in steel, "Stal'", 1953, No. 2) lead to the conclusion that the addition of titanium may improve the workability of hot steel, but there are no data in literature that would indicate the effect of titanium on the rolls grip on sulfurous steel,

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as well as the machinability and mechanical properties. Experiments have been carried out to this end at the electrometallurgical laboratory of the Moscow Steel Institute. The most even distribution in sulfides has been found in ingots alloyed with 0.19 % Ti. The machinability was tested by the standard "Two-cutters method" consisting in cutting with two cutters on a lathe (in this instance one cutter was carbide tipped and the other made of free-cutting steel), with electric wires welded to the cutters and connected to a galvanometer; the e.m.f. appearing in the ciruit due to different thermoelectric properties of the cutters is proportional to the heat forming in the metal being machined, and the higher the resistance to cutting is, the higher the current in the circuit. "A12" steel with 0.19 % Ti had the same machinability as the common steel without Ti, but the machinability was perceptibly worse when the Ti content was over 0.2 %. The friction factor in "A12" steel with 0.2 % Ti was considerably higher than in normal "A12" steel and even higher than in rolling the CT.3 (St.3) steel. Conclusion: Sulfurous "A12" steel with titanium has a high machinability, high friction factor in rolling and will cause no gripping diffi-

Investigation of free-cutting steel alloyed A161/A030

culty; the effect of titanium addition on plasticity at high temperature is positive. There are 5 figures, 5 Soviet references and 1 non-Soviet.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: May 14, 1960

Card 3/3

FOMENKO, Yu. Ye. Cand Tech Sci -- "Study of the process of rolling [redacted] of A-12 automatic steel in connection with conditions of friction." Mos, 1961 (Acad Sci USSR. Inst of Metallurgy im A. A. Baykov). (KL, 4-61, 201)

SUVOROV, I. K., kand. tekhn. nauk; FOMENKO, Yu. Ye., kand. tekhn. nauk; KUDRYAVTSEV, A. S., inzh.; PAPCHENKO, V. I., inzh.

Investigating the coefficient of the position resultant during hot rolling in cylindrical rolls. Sbor. Inst. stali i splav. no.40:130-137 '62. (MIRA 16:1)

(Rolling(Metalwork))

POLUKHIN, P. I., prof., doktor tekhn. nauk; MASTEROV, V. A., inzh.; FOMENKO, Yu. Ye., kand. tekhn. nauk

Complex investigation of contact pressure and friction forces during rolling. Sbor. Inst. stali i splav. no.40:166-172 '62. (MIRA 16:1)

(Rolling(Metalwork))
(Pressure—Measurement)
(Friction—Measurement)

FOMENKO, Yuriy Yevgen'yevich; FAYNSHTEYN, Vladimir Maksovich; POZIN, Mikhail Solomonovich; LANOVSKAYA, M.R., red.izd-va; ISLENT'YEVA, P.G., tekhn. red.

[Operator of guillotine shears] Rezchik gil'otinnykh nozhnits. Moskva, Metallurgizdat, 1963. 157 p. (MIRA 16:9)
(Shears (Machine tools))

DMITRIYEV, V.D.; SHEVAKIN, Yu.F.; FOMENKO, Yu.Ye.

Characteristics of the rolling of electrically welded stainless steelpipe on KhPt mills. Izv. vys. ucheb. zav.; chern. met. 7 no.11:100-104 '64. (MIRA 17:12)

1. Moskovskiy institut stali i splavov.

ZOLOTAREVA, A.I.; FOMENKO, Z.F.

Clays of the western provinces of the Ukraine as a raw material for preparing drilling muds. Trudy UkrNIGRI no.5:326-337 '63.

Selecting clays for well drilling in the eastern part of the Ukraine. Ibid.:338-344 (MIRA 18:3)

FOMENKO, Z.F.; ZOLOTAREVA, A.I.; SENTSYUK, V.P.

Alcohol oils as an antifoaming-reagent for clay muds.
Neft. i gaz. prom. no.2:32-33 Ap-Je '64. (MIRA 17:9)

FOMENKO, Z.F.; ZOLOTAREVA, A.I.; SENTSYUK, V.P.

Field testing of carbolineum, a new antifoamer. Neft. i gaz. prom. 3:33-34 Jl-S '65. (MIRA 18:11)

ZOLOTAREVA, A.I.; FOMENKO, Z.F.; SHCHERBAKOVA, A.F.

Composition of water soluble salts in rocks of the Dolina oil field and its effect on the parameters of clay muds. Trudy UkrNIGRI no.7:126-130 '63.

(MIRA 19:1)

L 19839-65 EWT(m)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b) Pf-4 ASD(f)-3/ ASD(m)-3/AFMDC HJW/JD/HM/HW

ACCESSION NR: AP4049063 S/0148/64/000/011/0100/0104

AUTHOR: Dmitriyev, V. D.; Shevnkin, Yu. F.; Fomenko, Yu. Ye.

TITLE: Peculiarities in the rolling of arc-welded pipes of stainless steel on KhPT milling machines.

SOURCE: IVUZ. Chernaya metallurgiya, no. 11, 1964, 100-104

TOPIC TAGS: stainless steel, stainless steel pipe, stainless steel rolling are welded pipe, pipe [illegible] steel rolling mill, stainless steel structure, steel Kh18N10T, KhPT rolling mill

ABSTRACT: Microscopic analyses and comparisons with Scheffler's diagrams have shown [illegible] surface near the welded joints of pipes made of Kh[illegible]T steel are due [illegible] and that the cracks do not [illegible] the joints are not cleaned before [illegible] causes reduction in both pipe diameter and wa[illegible] and 25 mm were quenched from [illegible] and sa[illegible] from them were [illegible] microstructural analysis. Cracks appearing at the [illegible] surface [illegible] 6 mm when the reduction in diameter reached 45%, and were due to the [illegible] at that spot and the differing properties of the [illegible] seam. Though [illegible] graphic analysis showed that quenching brought the seam nearer uniformity with the

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L 19839-65

ACCESSION NR: AP4049063

other sections, milling led to the new appearance of cracks at the seams. This was corrected by choosing the correct angle of setting on the milling machine, since the reduction in diameter of the pipe is increased by an increase in setting angle. The calibration of the machine was determined by Yi. F. Shevaldin's functional method. Thus, the difference between forward and reverse strokes was minimized, and the welded pipes had mechanical and technological characteristics approaching those of seamless pipes. Orig. art. has: 6 photomicrographs, 2 drawings, and 1 table.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Institute of Steel and Alloys)

SUBMITTED: 21Feb64 ENCL: 00 SUB CODE: MM

NO REF SOV: 006 OTHER: 003

Card 2/2

FOMENKOV, A. I.

"The Depth Guage Indicator Produced by the Krasnyy Instrumental'shchik Plant" Stanki i Instrument, 10, No. 6, 1939.

Report U-1505, 4 Oct 1951.

FOMENKOV, A. I.

"A Device for Demagnetizing Measuring Tools," Stanki i Instrument, 10, Nos. 10-11, 1939.

Report U-1505, 4 Oct 1951.

FOMENKOV, A. F. (Grad Stud)

Dissertation: "The Power and Dynamics of the Threshing Drum of the 'MKS-1100' Thresher When Its Productive Capacity Is Increased." Cand Tech Sci, Moscow Inst for the Mechanization and Electrification of Agriculture imeni V. M. Molotov, 18 Jun 54. (Vechernyaya Moskva, Moscow, 9 Jun 54)

SO: SUM 318, 23 Dec 1954

FOMENKOV, A.P., kandidat tekhnicheskikh nauk.

Methods of determining the moment of inertia of agricultural machines in operation. Sel'khozmashina no.3:13 Mr '56. (MIRA 9:7)

1.Chelyabinskiy institut mekhanizatsii i elektrifikatsii sel'skogokhozyaystva.
(Moments of inertia) (Agricultural machinery)

NAZAROV, G.I., doktor tekhn. nauk; OLEYNIK, N.P.; FOMENKOV, A.P.; YUROVSKIY, I.M.; SOLODENIKOVA, G.A., red.

[Principles of electric drives and use of electrical energy in agriculture] Osnovy elektroprivoda i primenenie elektricheskoi energii v sel'skom khoziaistve. [By] G.I. Nazarov i dr. Moskva, Kolos, 1965. 391 p.
(MIRA 18:7)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Nazarov).

FOMENKOV, B.P.

Structural characteristics of phlogopite deposits of the Kuranakh group in southern Yakutia and method of prospecting for phlogopite bodies. Izv.vys.ucheb.zav.; geol.i razv. 1 no.9:82-91 S '58. (MIRA 12:9)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze, Kafedra metodiki poiskov i razvedki mestorozhdeniy poleznykh iskopayemykh.
(Kuranakh Valley--Phlogopite)

FOMENKOV, B. P., Candidate Geolog-Mineralog Sci (diss) -- "The geological structure of the Kuranakh group of deposits and the principles of prospecting for concealed phlogopite-bearing bodies (souther Yakutia)". Moscow, 1959. 16 pp (Min Higher Educ USSR, Moscow Geological-Prospecting Inst im S. Ordzhonikidze), 120 copies (KL, No 24, 1959, 131)

FOMENKOV, B.P.

Structural types of phlogopite deposits and their evaluation. Izv.vys.ucheb.zav.;geol. i razv. 4 no.8:52-59 Ag '61. (MIRA 14:9)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.
(Yakutia--Philogopite)

FOMENKOV, B.P.

Methodology of prospecting for phlogopite deposits. Razved. i okh. nedr 27 no.9:10-13 S '61. (MIRA 17:2)

1. Moskovskiy geologorazvedochnyy institut.

FOMENKOV, B.P.; KORCHAGIN, A.M.

Concerning the regularities of the distribution of the vermiculite zones in the Inagli massif (southern Yakutia). Izv. vys. ucheb. zav.; geol i razv. 7 no.10:61-66 O '64. (MIRA 18:7)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze.

FOMENKOV, N.

We should continuously improve mining techniques. Mast.ugl.4 no.8:5 Ag'55. (MLRA 8:10)

1. Brigadir prokhodchikov shakhty no.1 imeni Chelyuskintsev Stalinskoy oblasti
(Donets Basin--Coal mines and mining)

Petlin, I. M.; Naumov, Boris Nikolayevich, Meyerov, M. V. Tsyplkin, Ya. Z;

"Study of the Frequency Regulation Process in the System Moscow-Kuibyshev," Scientific Report of the Inst of Automation and Telemechanics, USSR Acad of Sciences, 1952.

[illegible], [illegible]; Sheleumova, L. [illegible]; Naumov, Boris Nikolayevich; Lagerov, [illegible]
Tsypkin, Ya. Z.

"Investigation of the Velocity Regulation Process in the System Moscow-Kuibyshev, with Special Reference to the Phenomenon of the Retardation in the Kuibyshev Hydroturbine," Scientific Report of the Inst. of Automation and Telemechanics, USSR Acad. of Sciences, 1952.

FOMICH, M.F.

Outbreak of murine typhus salmonellosis. Zhur. mikrobiol. epid. i immun 28 no.2:134 F '57 (MLRA 10:4)

1. Iz laboratorii sanitarno-epidemilogicheskoy stantsii Stalinska.
(SALMONELLA) (TYPHUS FEVER)

FOMICHENKO, A.; KISELEV, A.

Centralized maintenance and repair of automobiles in Simferopol'.
Avt. transp. 37 no.7:16-19 Jl '59. (MIRA 12:10)

1.Glavnyy inzhener Krymskogo avtotresta (for Fomichenko).
2.Nachal'nik otdela Ukrdortransnii (for Kiselev).
(Simferopol'--Motortrucks--Maintenance and repair)

FOMICHENKO, I., prof., general-mayor v otstavke; STAVITSKIY, I., polkovnik, kand.istoricheskikh nauk

"The CPSU is the leader and educator of the Red Army,1918-1920" by IU.P.Petrov. Reviewed by I.Fomichenko, I.Stavitskii. Komm. Vooruzh.sil 2 no.7:88-93 Ap '62. (MIRA 15:3)
(Russia--Revolution,1917-1921)(Petrov, IU.P.)

FOMICHENKO, K.F.

Features of carbhohydrate metabolism and energy exchange in the brain following stimulation of the gastric receptors. Trudy Inst.fiziol.AN BSSR 3:140-154 '59. (MIRA 13:7)

1. Laboratoriya biokhimii Instituta fiziologii AN BSSR.
(METABOLISM) (STOMACH--INNERVATION)

L 03760-65 EWG(j)/EWT(m)
ACCESSION NR: AP5011069 UR/0250/65/009/003/0199/0201

AUTHOR: Fomichenko, K. V.; Lis'ko, N. A. 19 17 8

TITLE: Proteinogram of blood serum after chronic X irradiation

SOURCE: AN BSSR. Doklady, v. 9, no. 3, 1965, 199-201

TOPIC TAGS: blood serum, protein electrophoresis, protein, X ray, radiobiology 19

ABSTRACT: Paper electrophoresis was used to determine the effects of chronic (one month), fractional X irradiation (760 r) on the protein constituents in rat serum. Chronic irradiation considerably altered the electrophoretic protein pattern, mainly by reducing the relative content of the albumins and elevating that of the gamma [illegible] The beta globulin level dropped on the [illegible] it remained unaffected. The changes in albumins and gamma globulins [illegible] for more than 90 days. The decrease in [illegible] the slow entry of these proteins into the blood from [illegible] The elevated level of the gamma globuline is apparently related to the [illegible] vital state of the organism after irradiation [illegible] also to a pathogenic factor, for the ex[illegible]

Card 1/2

L 53760-65
ACCESSION NR: AP5011089

2

long time (until the end of the investigation). Orig. art. has: 1 table.

ASSOCIATION: Laboratoriya biokhimii Instituta fiziologii AN BSSR (Biochemistry Laboratory, Institute of Physiology AN BSSR); Belorussian [illegible] universi-[illegible] (Belorussian State University)

SUBMITTED: 07Mar64 ENCL: 00 SUB CODE: LS

NO REF SOV: 005 OTHER: 000

Card 2/2

CHERKASOVA, L.S.; KUKUSHKINA, V.A.; MIRONOVA, T.M.; REMBERGER, V.G.; FOMICHENKO, K.V.

Effect of mechanical stimulation of gastric receptors on metabolism. Trudy Inst. fiziol. AN BSSR 1:88-98 '56
(MLRA 10:5)

1. Laboratoriya biokhimii.
(STOMACH--INNERVATION) (METABOLISM)

FOMICHENKO, K.V.

T

USSR/Human and Animal Physiology. Digestion.

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36546.

Author : Cherkasova, L.S., Kukushkina, V.A., Mironova, T.M. Reinberger, V.G., Fomichenko, K.V.

Inst : Institute of Physiology BSSR. -- Lab of Biochem.

Title : The Effect of Mechanial Stimulation of Gastric Receptors on Metabolic Processes Under Conditions of Exclusion of Certain Areas of the Brain Cortex.

Orig Pub: Tr. In-taFiziol. AN BSSR 1956, 1, 180-193.

Abstract: The fasting glucose blood level (G) in dogs increased following removal of the premotor area of the cortex of the left hemisphere. Distension of the stomach prior to the operation lowered the fasting G level during the first 15 min and raised it somewhat after 30-45 minutes; following the operation, this produced

Card : 1/2

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36546.

only a slight decrease of the level in the first 5 min. The alimentary hyperglycemia following feeding persisted much longer in the operated than in the non-operated dogs, and gastric distension also prevented the appearance of the maximum raise of glycemia. The removal of the motor area of the cortex of both hemispheres in rats produced storage of glycogen in the liver and a marked increase in muscle tissue content of creatin-phosphoric acid and preorganic P; the content in the brain tissue of creatinphosphoric quotient of the muscle tissue remained of the same intensity. The reaction to mechanical stimulation of the receptors of the stomach in operated rats and rabbits remained the same as in non-operated animals.

FOMICHENKO, K.V., Cand Bio Sci--(diss) "Peculiarities of carbohydrate-phosphorus metabolism in the organism under the effect of bromine." (Minsk, 1958. 15 pp (Acad Sci BSSR. Inst of Biology), 100 copies (KL,26-58,108)

FOMICHENKO, K.V.

Effect of bromine on the exchange reaction of brain tissues induced by mechanical stimulation of gastric receptors. Trudy Inst. fiziol. AN BSSR 2:240-248 '58. (MIRA 12:1)

1. Laboratoriya biokhimii Instituta fiziologii AN BSSR.
(STOMACH--INNERVATION) (BROMINE--PHYSIOLOGICAL EFFECT)
(BRAIN)

FOMICHENKO, K.V.

Exchange reaction of muscle tissues in response to mechanical stimulation of gastric receptors following bromide administration. Trudy Inst. fiziol. AN BSSR 2:278-291 '58. (MIRA 12:1)

1. Laboratoriya biokhimii Instituta fiziologii AN BSSR.
(BROMINE--PHYSIOLOGICAL EFFECT)
(STOMACH--INNERVATION)
(MUSCLE)

TOMICHENKO, K.V. [Tamichenka, K.V.]

Changes in the amount of high-energy phosphorus compounds in brain tissues induced by the action of bromine. Vestsi AN BSSR Ser.biial.nav. no.4:83-90 '58. (MIRA 12:4)

(BROMINE--PHYSIOLOGICAL EFFECT) (BRAIN)
(CREATINEPHOSPHORIC ACID)
(ADENOSINETRIPHOSPHORIC ACID)

FOMICHENKO, K.V. [Famichenka, K.V.]

Tissular respiration during the action of bromine. Vestsi AN BSSR. Ser.biial.nav. no.2:102-110 '60. (MIRA 13:7)
(OXIDATION, PHYSIOLOGICAL) (BROMINE)

FOMICHENKO, K.V., CHERKASOVA, L.S., KUKUSHKINA, V.A., MALASHKO, V.I., TAIN, M. TU. (USSR)

"Energetic Study of Carbohydrate Metabolism During Single and Fracionated Co^{60} Irradiation."

Report presented at the 5th Int'l. Biochemistry Congress, Moscow, 10-16 Aug 1961.

FOMICHENKO, K.V.

Intensity of the assimilation of P^{32} into phosphorus compounds of the brain and muscles as affected by bromine. Kokl.AN BSSR 5 no.3:128-129 Mr '61. (MIRA 14:3)

1. Institut fiziologii An BSSR. Predstavleno akademikom AN BSSR T.N.Godnevym.
(BROMINE—PHYSIOLOGICAL EFFECT)
(PHOSPHORUS METABOLISM)